

Serial No.: 09/774,429

Attorney's Docket No.: 10559/340001/P9885

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

## 1. (Previously Presented) A method comprising:

determining at a first classifying forwarding element if a classification parameter is available for Internet Protocol security (IPsec) traffic that indicates a route for the IPsec traffic and classifying said traffic if available;

if said classification parameter is not available, and the IPsec traffic is encrypted then decrypting traffic in a decrypting forwarding element separate from the first classifying forwarding element after said traffic has passed through said classifying forwarding element, and determining the classification parameter for the IPsec traffic;

forwarding the IPsec traffic based on the classification parameter; and

providing the classification parameter to the first classifying forwarding element.

2. (Previously Presented) The method of claim 1 further comprising receiving the IPsec traffic at the classifying forwarding element.

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3. (Original) The method of claim 1 in which the classification parameter includes a security parameter index (SPI) associated with the IPsec traffic.

4. (Original) The method of claim 1 in which the IPsec traffic includes a data packet.

5. (Previously Presented) The method of claim 1 further comprising receiving at the first classifying forwarding element other IPsec traffic included in a traffic stream with the IPsec traffic, and further comprising forwarding the other IPsec traffic based on the provided classification parameter.

6. (Previously Presented) An article comprising:  
a machine-readable medium which stores machine-executable instructions, the instructions causing a machine to:  
determine at a first mechanism if a classification parameter is available for Internet Protocol security (IPsec) traffic that indicates a route for the IPsec traffic;  
if a classification parameter is not available, sending said traffic to a second mechanism separate from the first mechanism after said traffic has passed said first mechanism, and which second mechanism decrypts the IPsec traffic

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if the IPsec traffic is encrypted and determine the classification parameter for the IPsec traffic forward the IPsec traffic based on the classification parameter; and provide the classification parameter to the first mechanism.

7. (Original) The article of claim 6 further causing a machine to receive the IPsec traffic at the first mechanism.

8. (Original) The article of claim 6 in which the classification parameter includes a security parameter index (SPI) associated with the IPsec traffic.

9. (Original) The article of claim 5 in which the IPsec traffic includes a data packet.

10. (Previously Presented) The article of claim 6 further causing the first mechanism to forward other IPsec traffic included in a traffic stream with the IPsec traffic based on the provided classification parameter.

11. (Currently Amended) A system comprising:  
a classifying forwarding element configured to communicate

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with a network, to determine if a classification parameter that indicates a route for a traffic stream is available for a packet included in the traffic stream;

a control element in communication with the classifying forwarding element, the control element configured to receive information including classification information for the traffic stream and cryptographic information for the traffic stream, the control element further configured to transmit at least some classification information to the classifying forwarding element and to transmit at least one key based on the cryptographic information to a ~~de~~crypting decrypting forwarding element separate from the classifying forwarding element; and

wherein the ~~de~~crypting decrypting forwarding element is configured to receive the packet from the classifying forwarding element, and to perform an encryption-related procedure on the packet if the packet is encrypted and associated with the at least one key.

12. (Previously Presented) The system of claim 11 wherein the control element is configured to receive at least some of the cryptographic information in an Internet Key Exchange packet.

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13. (Currently Amended) The system of claim 12 in which the ~~second mechanism~~decrypting forwarding element is also configured to forward the packet to the control element if the packet is not associated with a known encryption-related key.

14. (Currently Amended) The system of claim 12, wherein the ~~decryption~~decrypting forwarding element is included in a plurality of ~~decryption~~decrypting forwarding elements, each in communication with at least one server of a plurality of servers, and wherein the control element includes security information for each of the plurality of servers.

15. (Currently Amended) The system of claim 12, wherein the cryptographic information includes an encryption-related key.

16. (Cancelled)

17. (Currently Amended) The system of claim 11 further comprising a plurality of additional mechanisms, each additional mechanism configured to communicate with the ~~classification~~classifying ~~device~~element to perform an encryption-related procedure on the packet if the packet is encrypted and associated with a known encryption-related key,

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and, if the classification parameter is available, to forward the packet based on the route for the traffic stream.

18. (Original) The system of claim 11 in which the packet includes an Internet Protocol security data packet.

19. (Original) The system of claim 11 in which the traffic stream includes a plurality of Internet Protocol security data packets.

20. (Currently Amended) The system of claim 11 in which the ~~first mechanism~~classifying forwarding element is also configured to forward the packet to the ~~second mechanism~~decrypting forwarding element if the packet is encrypted.

21. (Original) The system of claim 11 in which the route for the traffic stream includes a route through a network.

22. (Original) The system of claim 21 in which the network includes an Internet.

23. (Previously Presented) The system of claim 11 in which the encryption-related procedure includes encrypting the packet.

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24. (Previously Presented) The system of claim 11 in which the encryption-related procedure includes decrypting the packet.

25. (Currently Amended) The system of claim 11 further comprising another mechanism configured to receive the packet from the ~~second mechanism~~ decrypting forwarding element and to forward the packet based on the route to an ultimate destination of the packet.

26. (Currently Amended) The system of claim 11 in which the ~~first mechanism~~ classifying forwarding element is also configured to route packets included in the traffic stream based on a load balancing scheme.

27 - 30. (Cancelled)